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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Sri R Ramshankar
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site/Plant	**Date of Sampling**	10.12.2018
		Date of Testing	10.12.2018

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	105	105	3.50	96.50	95-100
20.00mm	1362	1467	48.90	51.10	30-70
10.00mm	978	2445	81.50	18.50	10-35
4.75mm	462	2907	96.90	3.10	0-5
Pan	93	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Sri R Ramshankar.
Sample ID	Cement
Date of Sample Tested	10.12.2018
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	342 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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Test Report on Cement

Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Sri R Ramshankar.
Sample ID	Cement
Date of Sample Tested	12.12.2018
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	336 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

s	BRUHAT BENGALORE MAHANAGARA PALIKE
ct	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
ltants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
actor	M/S Sri R Ramshankar.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
tion/Source	At Site/Plant	Date of Sampling	12.12.2018
d of Soaking	24 hours	Date of Testing	12.12.2018

No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
	Weight of sturated surface dry sample gm.	648	652	647	
	Weight of oven - dry sample gm.	638	642	638	
	Weight of Pycnometer Filled with water gm	1275	1275	1275	
	Weight of Pycnometer + sample + water gm	1683	1686	1692	
	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.658	2.664	2.774	2.699
	Absorption (%) $\frac{(A-B)*100}{B}$	1.567	1.558	1.411	1.512

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Sri R Ramshankar.

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant -	**Date of Sampling**	12.12.2018
		Date of Testing	12.12.2018

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	310	518	17.27	82.73	75 - 100
1.18 mm	423	941	31.37	68.63	55 - 90
0.600 mm	472	1413	47.10	52.90	35 -59
0.300 mm	740	2153	71.77	28.23	8-30
0.150 mm	632	2785	92.83	7.17	0 - 10
Pan	215	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Sri R Ramshankar.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	12.12.2018
		Date of Testing	12.12.2018

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	420	420	4.20	95.80	95 - 100
10.00 mm	4852	5272	52.72	47.28	25 - 55
4.75 mm	4210	9482	94.82	5.18	0 - 10
Pan	518	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	TEJUS CONSULTANTS
Contractor	M/S Sri R Ramshankar.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	CONCRETE
Sample Location	At Site/Plant	**Date of Sampling**	12.12.2018
		Date of Testing	12.12.2018

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	612	612	6.12	93.88	90-100
10.0	4682	5294	52.94	47.06	40-85
4.75	4565	9859	98.59	1.41	0-10
Pan	141	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Sri R Ramshankar.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	12.12.2018	19.12.2018	7 days	8.122	22500	294	13.07	13.10
2	12.12.2018	19.12.2018	7 days	8.135	22500	294	13.07	
3	12.12.2018	19.12.2018	7 days	8.145	22500	296	13.16	

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PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
	:	M/S Sri R Ramshankar.
Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
ample Tested	:	3
esting	:	15.12.2018
eference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
Concrete	:	M_{20} - 150mm thick

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50	140	0.68	2473.723	2.80	0.96	38.00	19.353	20.902	20.065	25.082
	50	140	0.67	2437.344	2.80	0.96	38.50	19.608	21.177	20.329	25.412
	50	140	0.68	2473.723	2.80	0.96	38.60	19.659	21.232	20.382	25.478

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/S Sri R Ramshankar.
Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
No of Sample Tested	:	3
Date of Testing	:	15.12.2018
Technical Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
Grade of Concrete	:	M_{20} - 150mm thick

Sl No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	140	0.67	2437.344	2.80	0.96	38.20	19.455	21.012	20.171	25.214
2	50	140	0.67	2437.344	2.80	0.96	38.60	19.659	21.232	20.382	25.478
3	50	140	0.68	2473.723	2.80	0.96	38.30	19.506	21.067	20.224	25.280

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PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
ractor	:	M/S Sri R Ramshankar.
e of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Sample Tested	:	3
of Testing	:	15.12.2018
nical Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
e of Concrete	:	M_{20} - 150mm thick

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50	140	0.66	2400.966	2.80	0.96	38.10	19.404	20.957	20.118	25.148
	50	140	0.66	2400.966	2.80	0.96	38.20	19.455	21.012	20.171	25.214
	50	140	0.66	2400.966	2.80	0.96	38.50	19.608	21.177	20.329	25.412

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PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
ctor	:	M/S Sri R Ramshankar.
Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Sample Tested	:	3
Testing	:	15.12.2018
cal Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
Concrete	:	**M_{20} - 250mm thick**

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	100.00	180.00	3.385	2394.40	1.80	0.960	158.50	20.18	21.80	20.92	26.15
	100.00	180.00	3.415	2415.62	1.80	0.960	158.60	20.19	21.81	20.94	26.17
	100.00	180.00	3.425	2422.69	1.80	0.960	158.80	20.22	21.84	20.96	26.20

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No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

TEJUS

Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	M/S Sri R Ramshankar.		
Proposed Use	WMM	**Date of Sampling**	**20.04.2018**
Sample Location	**At plant**	**Date of Testing**	**20.04.2018**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	362.00	352.00	364.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	280.00	276.00	278.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	82.00	76.00	86.00	
4	Aggregate Impact Value (%)	(Wc/Wa)* 100	22.65	21.59	23.63	
5	Average Aggregate impact value	(%)	22.62			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/S Sri R Ramshankar.

Type of Material	WMM	**Proposed Use**	WMM
Sample Location	At plant	**Date of Sampling**	20.04.2018
		Date of Testing	20.04.2018

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	900	76	824	48
16.0	12.5	1200	118	1082	122
12.5	10.0	458	72	386	62
10.0	6.3	510	62	448	40
Total		**3068**	**328**	**2740**	**272**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.69
Elongation Index(%):	9.93
Combined FI+EL (%)	20.62

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